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the amino acid Xa at position 384 isoproline or glutamine; the amino acid Xa at position 390 is lysine or arganine; the amino acid Xa at position 416 is serine or proline; the amino acid Xa at position 431 is valine or alanine; the amino acid Xa at position 451 is glycine or serine; the amino acid Xa at position 489 is glycine or serine; the amino acid Xa at position 501 is alanine or threonine; the amino acid Xa at position 508 is tyrosine or phenylalanine; the amino acid Xa at position 513 is serine or proline; the amino acid Xa at position 528 is cysteine or arginine the amino acid Xa at position 535 is proline or alanine; the amino acid Xa at position 547 is glycine or serine; the amino acid Xa at position 548 is alanine or serine the amino acid Xa at position 548 is alanine or valine.

IN THE CLAIMS

Please calcel claims 1-11, and 17-20 without prejudice or disclaimer.

Please amend the following claims:

- 12. (Once Amended) An isolated protein, wherein said protein is a KChAP protein or a derivative thereof, wherein said protein comprises an amino acid sequence having at least 85% identity with the amino acid sequence shown in Fig. 2, SEQ ID NO: 2 or the amino acid sequence shown in Fig. 3, SEQ ID NO: 4, or the amino acid sequence set forth in SEQ ID NO: 6.
- 13. (Once Amended) The isolated protein of claim 12, wherein said protein binds to Kva subunits Kv2.1, Kv2.2, Kv1.3, and Kv4.3.

Please add the following claims:

21. (New) The isolated protein of claim 12, wherein said protein comprises a Kvaα/Kvβ binding domain having the amino acid sequence set forth in SEQ ID NO: 10.